



Guidelines for Prevention and Treatment of Opportunistic Infections in HIV-Infected Adults and Adolescents

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Figure 1 (Last updated May 7, 2013; last reviewed May 7, 2013)

Immunization Schedule for Human Immunodeficiency Virus (HIV)-Infected Adults

VACCINE ▼	INDICATION ►	HIV Infection CD4+ T lymphocyte count < 200 cells/μL	HIV Infection CD4+ T lymphocyte count ≥ 200 cells/μL
Influenza *		1 dose IIV [†] annually	
Tetanus, diphtheria, pertussis (Td/Tdap) *		Substitute 1-time dose of Tdap for Td booster; then boost with Td every 10 yrs	
Varicella *		Contraindicated	2 doses
Human papillomavirus (HPV) Female *		3 doses through age 26 yrs	
Human papillomavirus (HPV) Male *		3 doses through age 26 yrs	
Zoster		Contraindicated	
Measles, mumps, rubella (MMR) *		Contraindicated	1 or 2 doses
Pneumococcal polysaccharide (PPSV23)		1 dose followed by a booster at 5 years	
Pneumococcal 13-valent conjugate (PCV13) *		1 dose	
Meningococcal *		1 or more doses	
Hepatitis A *		2 doses	
Hepatitis B *		3 doses	

*Covered by the Vaccine Injury Compensation Program

[†]IIV - Inactivated Influenza Vaccine. LAIV (live attenuated influenza vaccine) is not recommended for HIV-infected persons.

- For all persons in this category who meet the age requirements and who lack documentation of vaccination or have no evidence of previous infection; zoster vaccine recommended regardless of prior episode of zoster
- Recommended if some other risk factor is present (e.g., on the basis of medical, occupational, lifestyle, or other indications)
- No recommendation

Adapted from the Advisory Committee on Immunization Practices (ACIP) 2013 Adult Immunization Schedule. A summary of the adult immunization schedule vaccines and their primary indications, adverse events and contraindications can be found at: www.cdc.gov/vaccines/schedules/downloads/adult/mmw-13-adult-schedule.pdf. For more detailed information on immunization of persons with HIV infection against influenza, pneumococcal disease, hepatitis B, human papillomavirus, varicella, and hepatitis A, see disease-specific sections in the text and in Table 1. For additional information on these and other vaccines (tetanus, diphtheria, pertussis, measles, mumps, rubella, and meningococcal disease), refer to recommendations of the ACIP at: www.cdc.gov/vaccines/pubs/acip-list.htm.



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